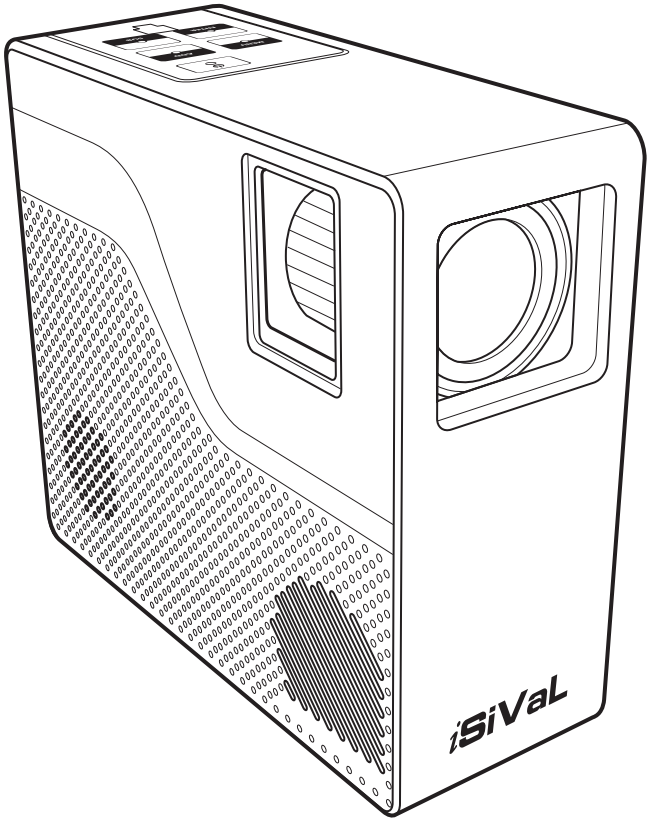
iSiVaL

mini projector



User Manual

Safety instructions

Follow these instructions to ensure that the safety and functionality of the device are not compromised in any way.

Note: The mini projector can be operated in the upright position when attached to the supplied stand or in the horizontal position.

- Never push objects of any kind into the receiver as this could result in a fire or electric shock.
- Never spill liquid of any kind onto the receiver. If any liquid or solid object does get into the receiver, switch it off immediately and have it checked by qualified personnel.
- To prevent fire or shock hazard, do not expose the receiver to rain or moisture.
- Never place the receiver in hot, humid, or excessively dusty places. Do not install the receiver where it may be exposed to mechanical vibrations or electromagnetic radiation.
- Clean the receiver with a soft, lightly dampened cloth. Do not use any type of abrasive pad, alkaline cleaner, scouring powder, or solvent such as alcohol or benzene.
- Do not place any objects on top of the receiver. To prevent fire, keep inflammable objects or objects such as candles away from the receiver.
- Do not cover the ventilation openings of the receiver with newspapers or curtains. For ventilation, leave a space of at least 10cm all around the receiver.
- Remember to dispose of batteries in an environmentally friendly manner. Do not dispose in domestic waste containers.

Warning

- Hazardous moving parts
- Keep away from moving fan blades

Customer Support

If you need assistance, please visit our website: http://www.sivalinstruments.com for help.

Copyright information

No part of this manual, including the products and software described in it, may be reproduced, transmitted, transcribed, stored in a retrieval system, or translated into any language in any form or by any means, except documentation kept by the purchaser for backup purposes, without the express written permission of the manufacturer.

Products and corporate names appearing in this manual may or may not be registered trademarks or copyrights of their respective companies, and are used only for identification or explanation and to the owners' benefit, without intent to infringe. All trademarks are the property of their respective owners.

Copyright © 2009. All rights reserved.

Table of Contents

Introducing the mini projector

Features 1
Package contents 2
Hardware description 3
Front view 3
Rear view 3
Control panel 4
Overview of the remote control 5

Setting up the projector

Connecting power 7
Connecting AV devices 7
Connecting HDMI devices 8
Connecting USB drive 8
Connecting to a computer 9
Connecting speakers 9
Installing remote control battery 10
Installing baffle plate 11

Using the mini projector

Positioning your projector 13
Turning on the power 13
Turning the power off 13
Adjusting the OSD settings 14
Switching the input source 14
Adjusting picture 14
Picture Mode 15
Brightness 15
Contrast 16

Sharpness 16
Color 17
Tint 17
Digital NR 18
Aspect Ratio 18
Color Temp 19
Recall 19
Adjusting Keystone 20
Auto 20
Manual 21
Image Flip H. 21
Image Flip V. 22
Setting up the mini projector 22
Sleep Time 23
OSD Time 23
Selecting the OSD language 24
Background 24
Auto Search 25
Viewing information 25
Adjusting PC settings 26
H Position 26
V Position 27
Phase 27
Clock 28
Auto Adjust 28
Viewing pictures in USB mode 29
Thumbnail view 29
SlideShow 29
Zoom 29
Pan 29
Rotate 29

Appendix

Specifications 31
Troubleshooting 32

Introducing the mini projector

Congratulations on purchasing the mini projector. The mini projector is a slim, compact digital system with multiple video outputs that can be connected to most TV connectors. Read this chapter to learn more about the features and functions of the mini projector.

Note: Information in this document has been carefully checked for accuracy; however, no guarantee is given to the correctness of the contents. The information inthis document is subject to change without notice.

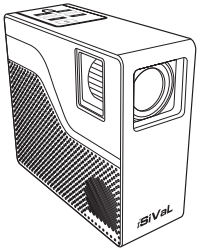
Features

- 1280x720p output native resolution
- Input resolution up to 1920 x 1080p / 165MHz
- 16:9 output or 4:3 (manually switch) aspect ratio
- Support HDMI 1.3
- Support USB 2.0 for JPEG viewing
- Auto Keystone
- Input I/O: HDMI,D-Sub, Composite, USB, Audio in (Phone jack)

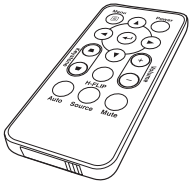
Package contents

Make sure that your package contains the following items. If any of the items is missing or appears to be damaged, contact your vendor.

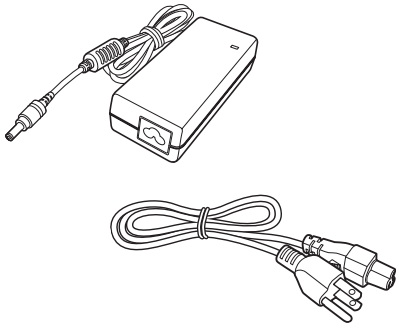
mini projector



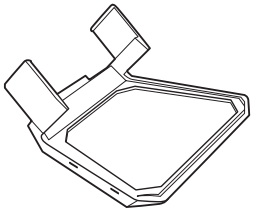
Remote control



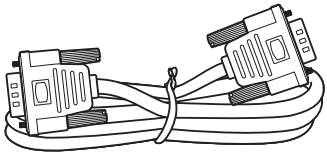
Power adapter



Baffle plate



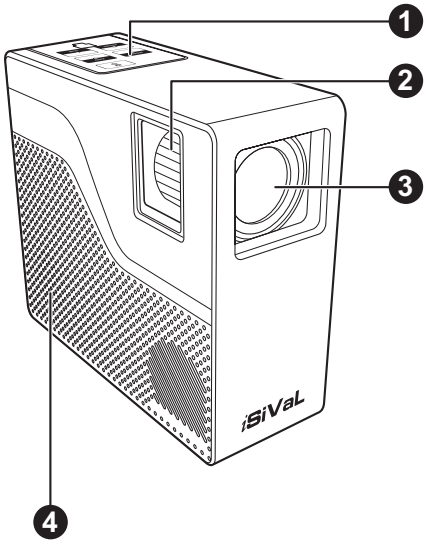
VGA cable



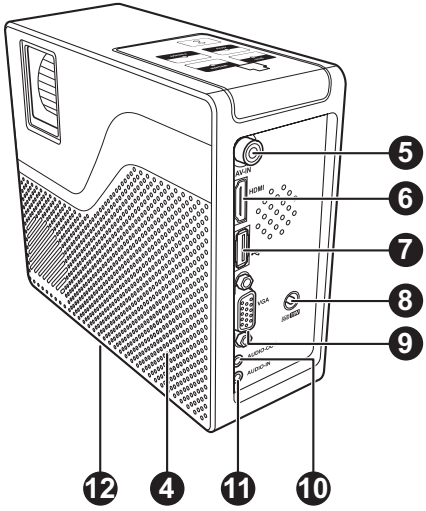
Hardware description

The following sections describe the hardware components of the mini projector.

Front view

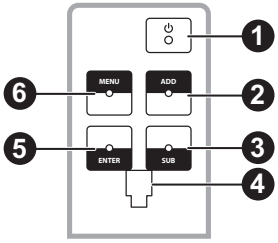


Rear view



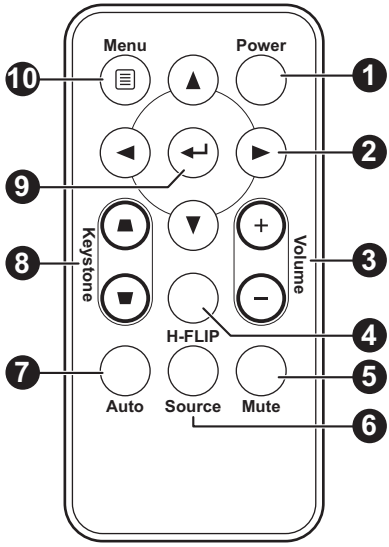
	Name	Description
1.	Control panel	Tap the keys to operate the projector.
2.	Focus ring	Rotate to sharpen the image.
3.	Projection lens	Projects the image.
4.	Speaker	Plays audio.
5.	AV-in	Connects to AV devices.
6.	HDMI	Connects to HDMI devices.
7.	USB	Connects to USB drives for JPEG viewing.
8.	DC-in	Connects to the AC adapter.
9.	VGA	Connects to VGA input sources.
10.	Audio-out	Connects to speakers.
11.	Audio-in	Connects to audio.
12.	Ceiling mounting Hole	Use to mount the mini projector on the ceiling.

Control panel



	Name	Description
1.	Power	Press to turn power on and off.
2.	Add	Press to increase the volume
3.	Sub	Press to decrease the volume
4.	IR	Remote control receiver
5.	Enter	Press to confirm selection of menu item.
6	Menu	Press to view the OSD menu.

Overview of the remote control



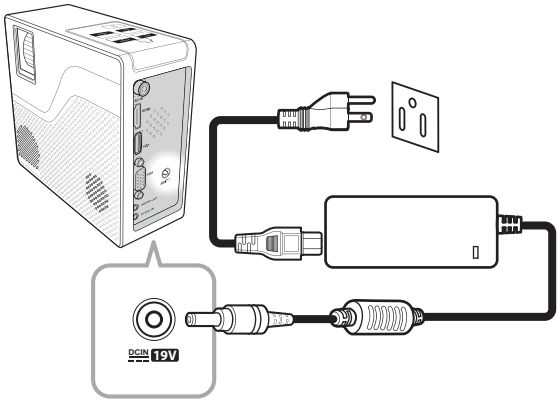
	Name	Description
1.	Power	Press to turn power on and off.
2.	Arrow (▲/▼/◀/▶) buttons	Press to move up, down, left, or right through menu items.
3	Volume	Press + to increase volume and - to decrease volume
4.	Help	Press to display the help menu.
5.	Mute	Press to mute the audio.
6.	Source	Press to select the video sources.
7.	Auto	Press to automatically optimizes the projected image.
8.	Keystone	Press to adjust image distortion caused by tilting the projector.
9.	Enter	Press to confirm selection of menu item.
10	Menu	Press to view the OSD menu.

Setting up the projector

Before you begin any of the procedures in this section, please read and follow the safety instructions as described in the beginning of the user's manual. Before connecting, be sure to turn off both the projector and the devices. After making all connections, turn on the projector and then the other devices.

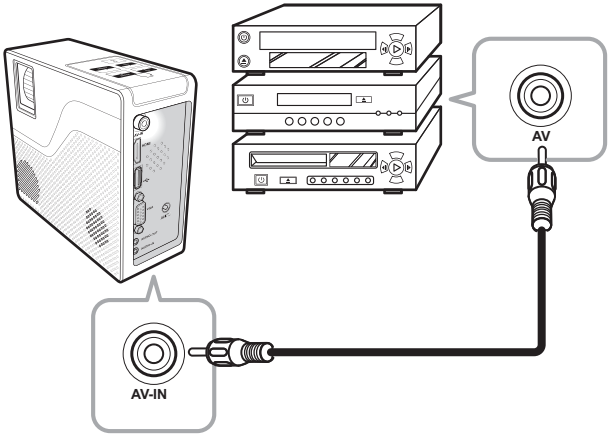
Connecting power

Connect the power adapter to the mini projector as shown in the illustration.



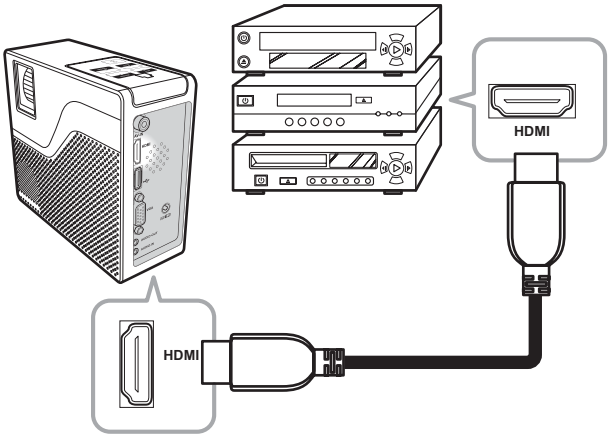
Connecting AV devices

Use a component cable to connect the AV devices to the mini projector.



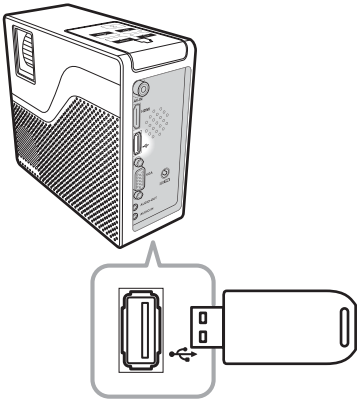
Connecting HDMI devices

Use a HDMI cable to connect the HDMI devices to the mini projector.



Connecting USB drive

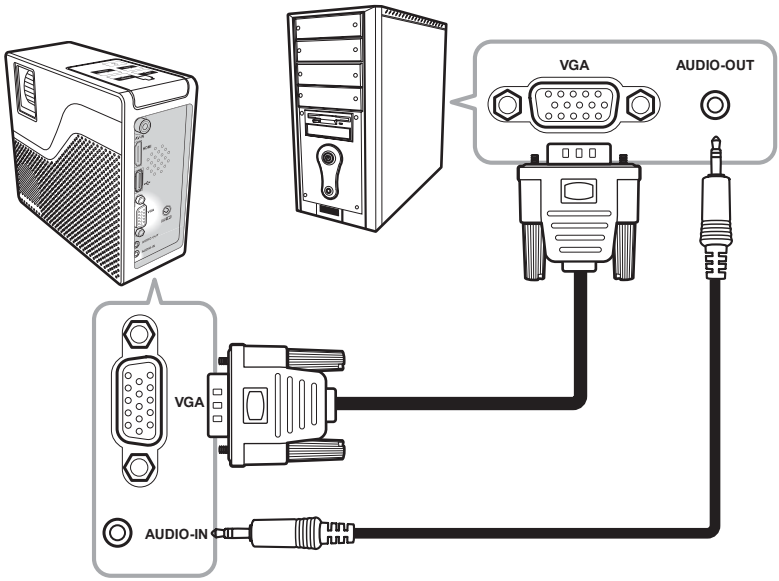
Connect an USB drive to the mini projector to view image files on the drive.



Note: Only JPEG format images are supported by the mini projector

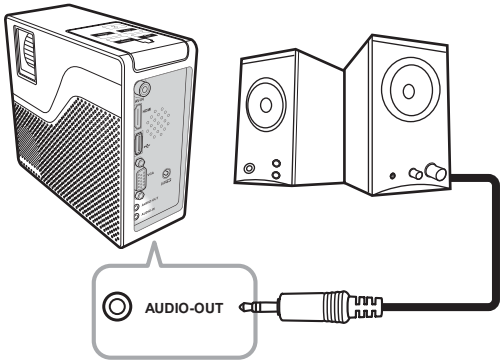
Connecting to a computer

Use the VGA cable to connect the computer to the mini projector.



Connecting speakers

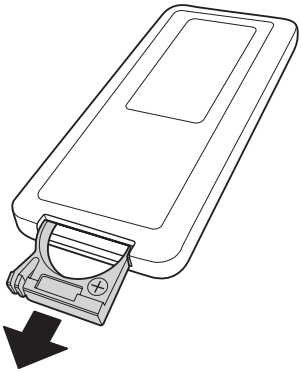
Use an audio cable to connect speakers to the mini projector.



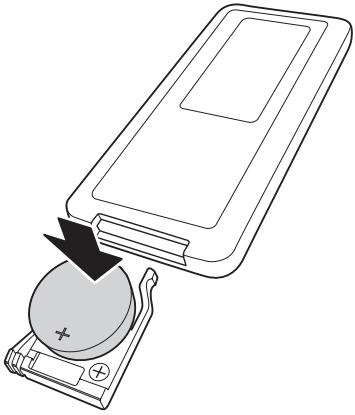
Note: Some cables are sold separately and may not be included in the package.

Installing remote control battery

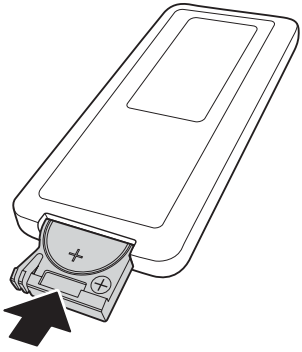
1. Slide out the battery holder from the remote control.



2. Make sure power polarity is correct and insert the battery to the battery holder.

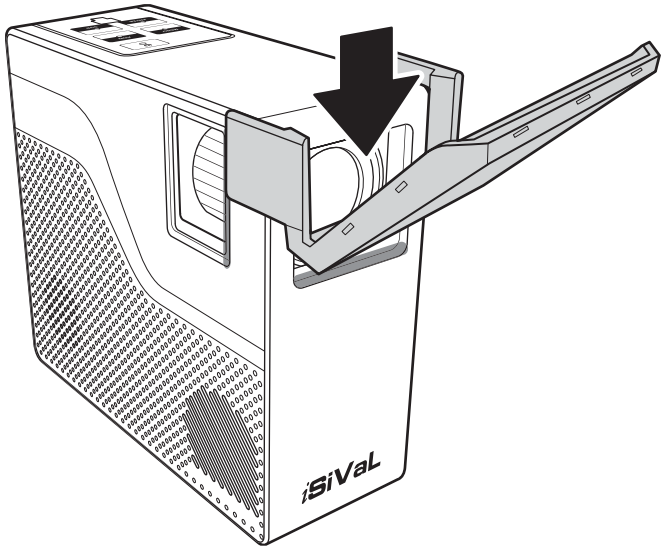


3. Slide the battery holder back in the remote control.

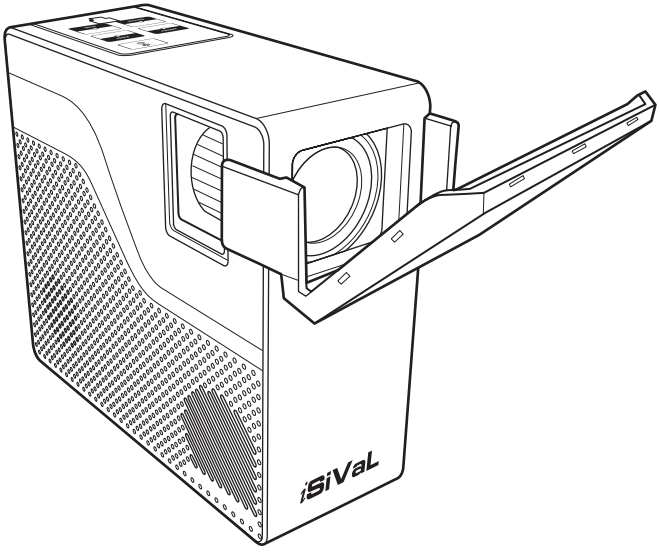


Installing baffle plate

1. Attach the baffle plate as shown in illustration.



2. You can now project screen to the ceiling.



Using the mini projector

Positioning your projector

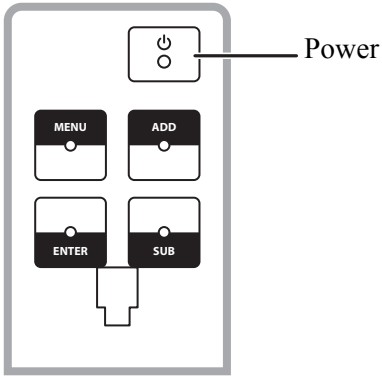
- **Front table**: Place the projector on the table in front of the screen.
- **Front ceiling**: Mount the projector on the ceiling in front of the screen.
- **Rear table**: Place the projector on the table behind the screen.*
- **Rear ceiling**: Mount the projector on the ceiling behind the screen.*

*A special rear projection screen is required.

Note: To get more projection possibilities, attach the baffle place to suit your needs.

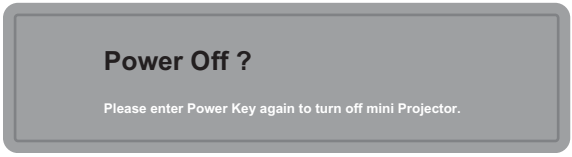
Turning on the power

1. Ensure that the AC adapter is connected to the power outlet and the mini projector.
2. Tap **Power** on the control panel to turn on the projector.



Turning the power off

1. Tap **Power** on the control panel.
2. A confirmation message appears.
3. Tap **Power** again to confirm.



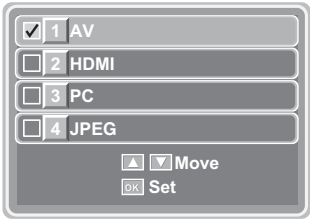
Adjusting the OSD settings

1. Press **Menu** to open the OSD menu.
2. Press ▲/▼/◀/▶ on the remote control to select a submenu and adjust the settings.
3. Press ↵ to confirm.

Note: Available menu options vary depending on the current input source.

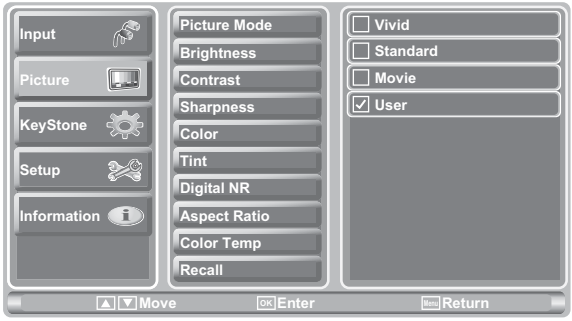
Switching the input source

1. Ensure that the appropriate cable is connected to your input source and the mini projector.
2. Press **Source** on the remote control.
3. The Source Selection menu appears on the screen.
4. Press ▲/▼ to select the desired input source.
5. Press ↵ to confirm.



Adjusting picture

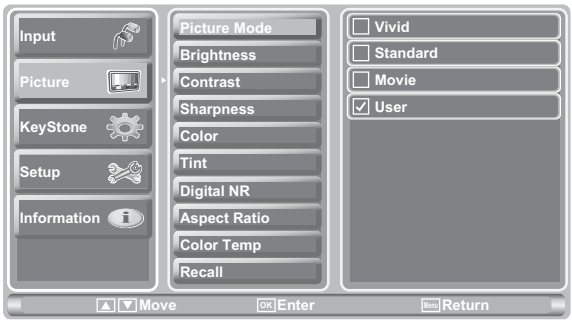
1. Press **Menu** on the remote control.
2. Press ▲/▼ to select **Picture**, then press ↵.
3. Press ▲/▼/◀/▶ on the remote control to select a submenu and adjust the settings.
4. Press ↵ to confirm and press **Menu** to exit.



PICTURE MODE

The Picture Mode can be set to Vivid, Standard, Movie, or User.

1. Press **Menu** on the remote control.
2. Press ▲/▼ to select **Picture**, then press ↵.
3. Press ▲/▼on the remote control to select **Picture Mode** then press ↵.
4. Press ▲/▼on the remote control to select the desired option.
5. Press ↵ to confirm and press **Menu** to exit.

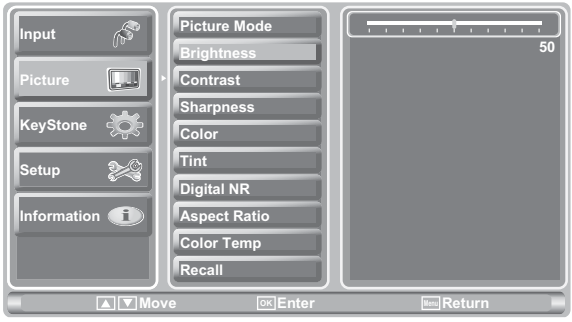


Note: Select User option to enable other submenus in the Picture menu.

BRIGHTNESS

Brightness can be set to 0 to 100.

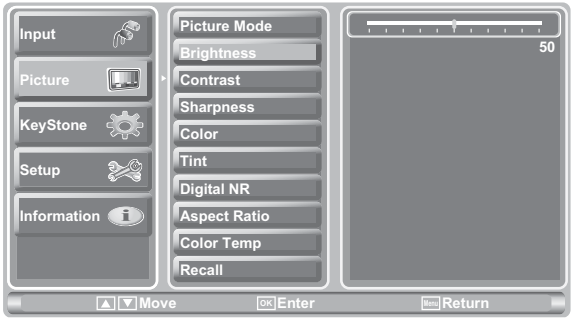
1. Press **Menu** on the remote control.
2. Press ▲/▼ to select **Picture**, then press ↵.
3. Press ▲/▼on the remote control to select **Brightness** then press ↵.
4. Press ◀/▶ on the remote control to adjust the brightness value.
5. Press ↵ to confirm and press **Menu** to exit.



CONTRAST

Contrast can be set to 0 to 100.

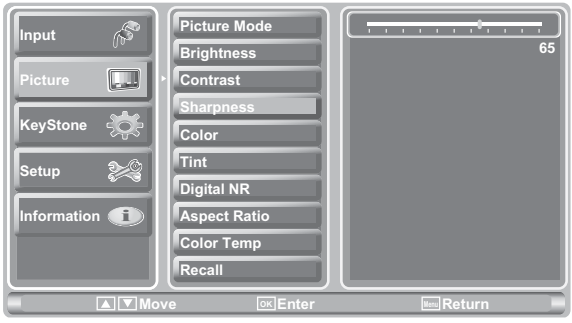
1. Press **Menu** on the remote control.
2. Press ▲/▼ to select **Picture**, then press ↵.
3. Press ▲/▼on the remote control to select **Contrast** then press ↵.
4. Press ◀/▶ on the remote control to adjust the contrast value.
5. Press ↵ to confirm and press **Menu** to exit.



SHARPNESS

Sharpness can be set to 0 to 100.

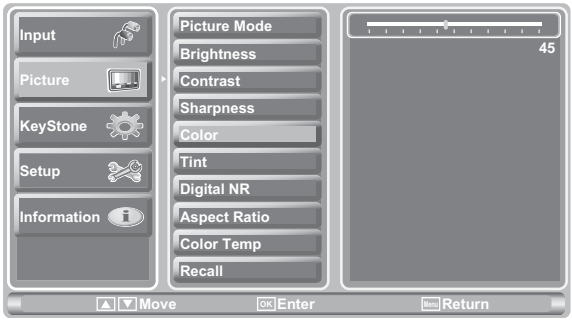
1. Press **Menu** on the remote control.
2. Press ▲/▼ to select **Picture**, then press ↵.
3. Press ▲/▼on the remote control to select **Sharpness** then press ↵.
4. Press ◀/▶ on the remote control to adjust the sharpness value.
5. Press ↵ to confirm and press **Menu** to exit.



COLOR

Color can be set to 0 to 100.

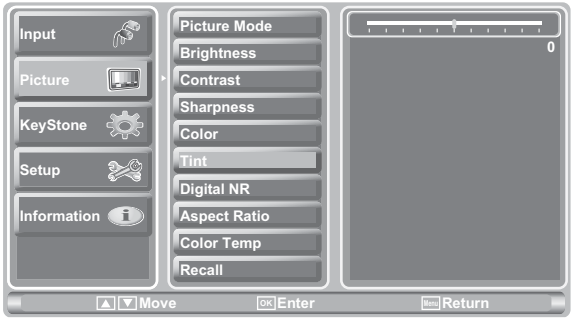
1. Press **Menu** on the remote control.
2. Press ▲/▼ to select **Picture**, then press ↵.
3. Press ▲/▼on the remote control to select **Color** then press ↵.
4. Press ◄/► on the remote control to adjust the color value.
5. Press ↵ to confirm and press **Menu** to exit.



TINT

Tint can be set to -16 to 16.

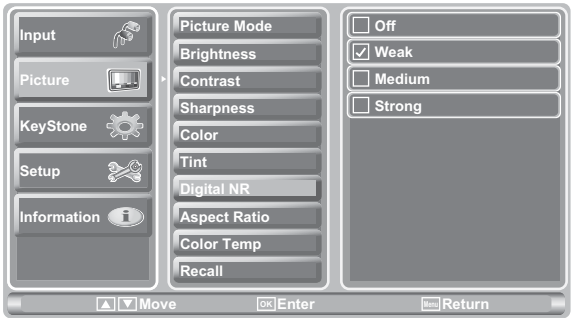
1. Press **Menu** on the remote control.
2. Press ▲/▼ to select **Picture**, then press ↵.
3. Press ▲/▼on the remote control to select **Tint** then press ↵.
4. Press ◄/► on the remote control to adjust the tint value.
5. Press ↵ to confirm and press **Menu** to exit.



DIGITAL NR

Digital NR can be set to Off, Weak, Medium, or Strong.

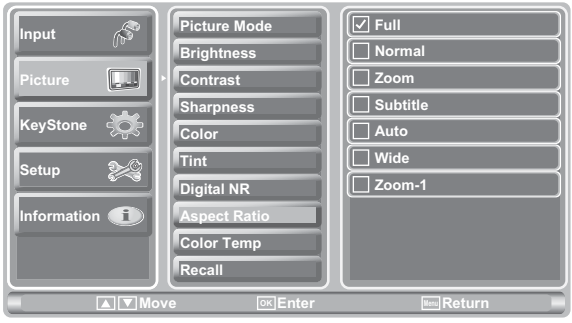
1. Press **Menu** on the remote control.
2. Press ▲/▼ to select **Picture**, then press (↵).
3. Press ▲/▼on the remote control to select **Digital NR** then press (↵).
4. Press ▲/▼on the remote control to select the desired option.
5. Press (↵) to confirm and press **Menu** to exit.



ASPECT RATIO

Aspect Ratio can be set to Full, Normal, Zoom, Subtitle, Auto, Wide, or Zoom-1.

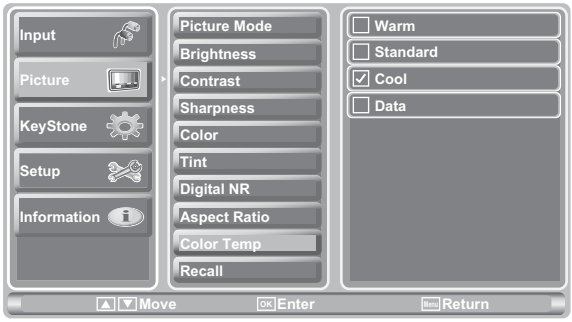
1. Press **Menu** on the remote control.
2. Press ▲/▼ to select **Picture**, then press (↵).
3. Press ▲/▼on the remote control to select **Aspect Ratio** then press (↵).
4. Press ▲/▼on the remote control to select the desired option.
5. Press (↵) to confirm and press **Menu** to exit.



COLOR TEMP

Color Temp can be set to Warm, Standard, Cool or Data.

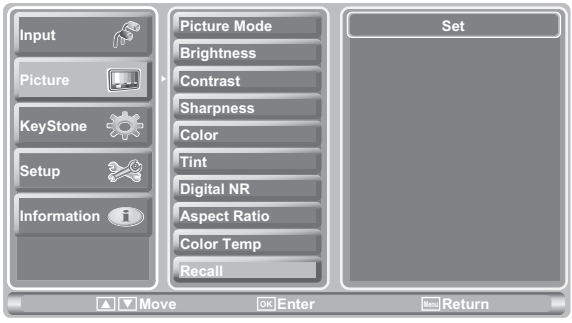
1. Press **Menu** on the remote control.
2. Press ▲/▼ to select **Picture**, then press ↵.
3. Press ▲/▼on the remote control to select **Color Temp** then press ↵.
4. Press ▲/▼on the remote control to select the desired option.
5. Press ↵ to confirm and press **Menu** to exit.



RECALL

Use Recall to reset all settings back to factory default.

1. Press **Menu** on the remote control.
2. Press ▲/▼ to select **Picture**, then press ↵.
3. Press ▲/▼on the remote control to select **Recall** then press ↵.
4. Press ↵ again to confirm recall.



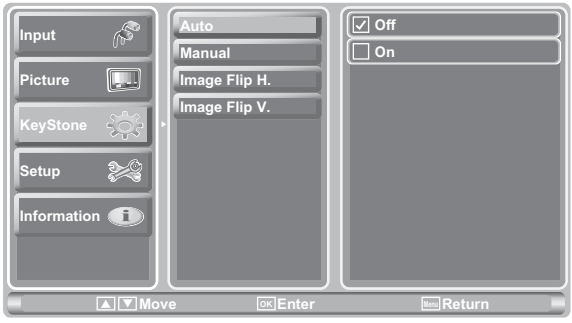
Adjusting Keystone

1. Press **Menu** on the remote control.
2. Press ▲/▼ to select **Keystone**, then press ↵.
3. Press ▲/▼/◀/▶ on the remote control to select a submenu and adjust the settings.
4. Press ↵ to confirm and press **Menu** to exit.

AUTO

Auto can be set to On or Off.

1. Press **Menu** on the remote control.
2. Press ▲/▼ to select **Keystone**, then press ↵.
3. Press ▲/▼on the remote control to select **Auto** then press ↵.
4. Press ▲/▼on the remote control to select the desired option.
5. Press ↵ to confirm and press **Menu** to exit.



MANUAL

Use this option to adjust keystone manually. It can be set to -64 to 64.

1. Press **Menu** on the remote control.
2. Press ▲/▼ to select **Keystone**, then press ↵.
3. Press ▲/▼on the remote control to select **Manual** then press ↵.
4. Press ◀/▶ on the remote control to adjust the value.
5. Press ↵ to confirm and press **Menu** to exit.

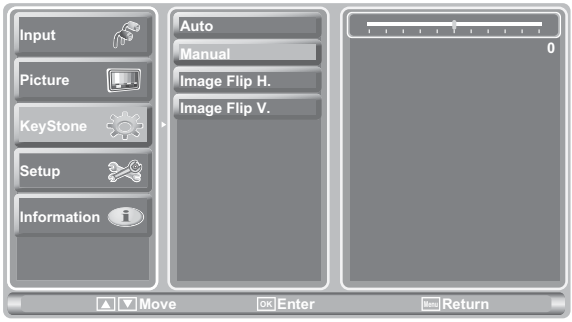


IMAGE FLIP H.

Use this option to flip the image horizontally. It can be set to On or Off.

1. Press **Menu** on the remote control.
2. Press ▲/▼ to select **Keystone**, then press ↵.
3. Press ▲/▼on the remote control to select **Image Flip H.** then press ↵.
4. Press ▲/▼on the remote control to select the desired option.
5. Press ↵ to confirm and press **Menu** to exit.

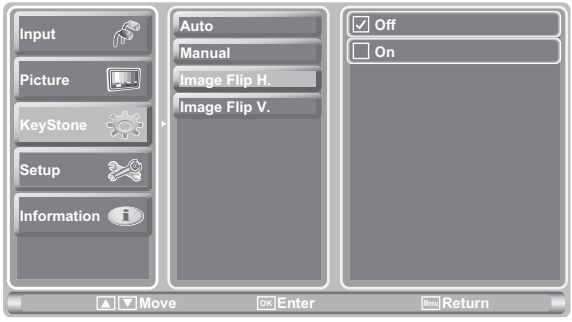
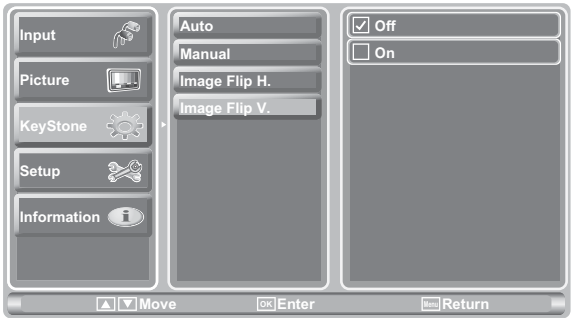


IMAGE FLIP V.

Use this option to flip the image vertically. It can be set to On or Off.

1. Press **Menu** on the remote control.
2. Press ▲/▼ to select **Keystone**, then press ↵.
3. Press ▲/▼on the remote control to select **Image Flip V.** then press ↵.
4. Press ▲/▼on the remote control to select the desired option.
5. Press ↵ to confirm and press **Menu** to exit.



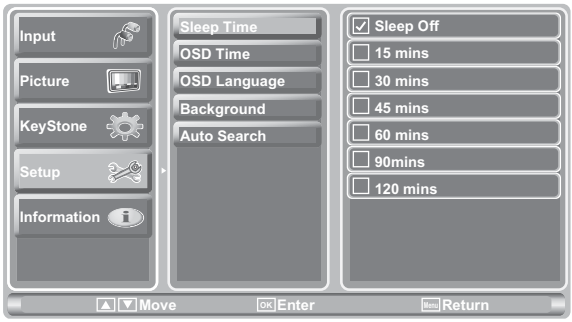
Setting up the mini projector

1. Press **Menu** on the remote control.
2. Press ▲/▼ to select **Setup**, then press ↵.
3. Press ▲/▼/◀/▶ on the remote control to select a submenu and adjust the settings.
4. Press ↵ to confirm and press **Menu** to exit.

SLEEP TIME

Use Sleep time to set a set a timer to turn the mini projector off. It can be set to Sleep Off, 15 mins, 30 mins, 45 mins, 60 mins, 90 mins, or 120 mins.

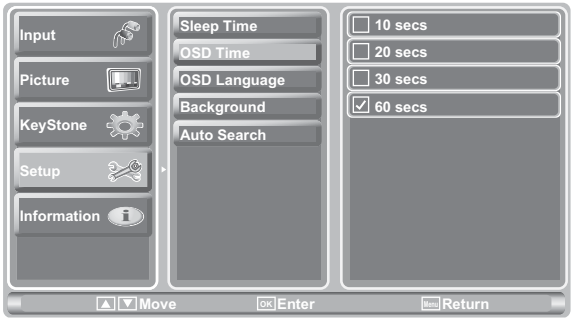
1. Press **Menu** on the remote control.
2. Press ▲/▼ to select **Setup**, then press ↵.
3. Press ▲/▼on the remote control to select **Sleep Time** then press ↵.
4. Press ▲/▼on the remote control to select the desired option.
5. Press ↵ to confirm and press **Menu** to exit.



OSD TIME

Use OSD Time to set a timer for OSD to turn off. It can be set to 10 secs, 20 secs, or 30 secs.

1. Press **Menu** on the remote control.
2. Press ▲/▼ to select **Setup**, then press ↵.
3. Press ▲/▼on the remote control to select **OSD Time** then press ↵.
4. Press ▲/▼on the remote control to select the desired option.
5. Press ↵ to confirm and press **Menu** to exit.



SELECTING THE OSD LANGUAGE

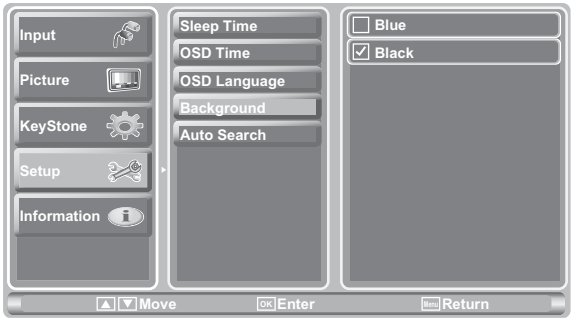
OSD Language can be set to English, Spanish, French, Traditional Chinese, or Simplified Chinese.

1. Press **Menu** on the remote control.
2. Press ▲/▼ to select Setup, then press ↵.
3. Press ▲/▼ to select OSD Language, then press ↵.
4. Press ▲/▼ to select the desired language.
5. Press ↵ to confirm.

BACKGROUND

Use Background to adjust the background color. It can be set to Blue or Black.

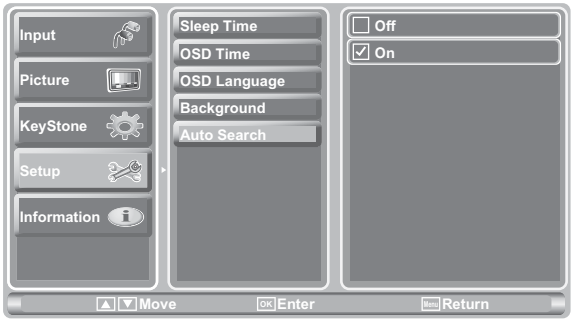
1. Press **Menu** on the remote control.
2. Press ▲/▼ to select **Setup**, then press ↵.
3. Press ▲/▼on the remote control to select **Background** then press ↵.
4. Press ▲/▼on the remote control to select the desired option.
5. Press ↵ to confirm and press **Menu** to exit.



AUTO SEARCH

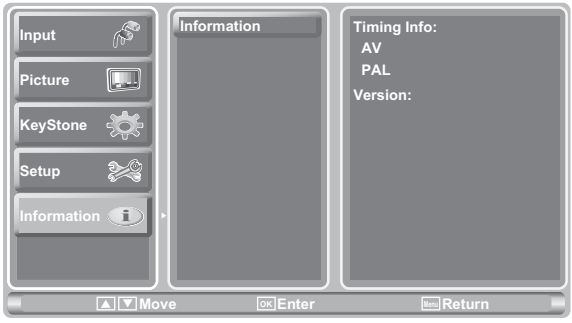
Auto Search can be set to On or Off.

1. Press **Menu** on the remote control.
2. Press ▲/▼ to select **Setup**, then press ↵.
3. Press ▲/▼on the remote control to select **Auto Search** then press ↵.
4. Press ▲/▼on the remote control to select the desired option.
5. Press ↵ to confirm and press **Menu** to exit.



Viewing information

1. Press **Menu** on the remote control.
2. Press ▲/▼ to select **Information** to view projector information.



Adjusting PC settings

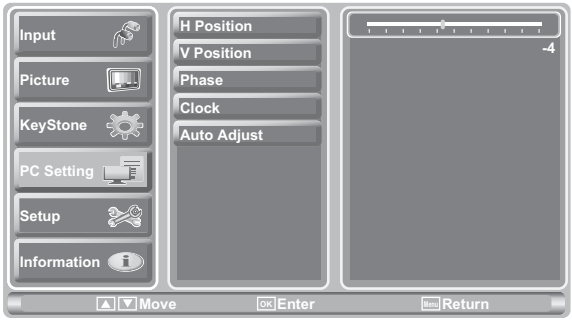
Adjust PC settings in PC mode.

1. Press **Menu** on the remote control.
2. Press ▲/▼ to select **PC Setting**, then press ↵.
3. Press ▲/▼/◀/▶ on the remote control to select a submenu and adjust the settings.
4. Press ↵ to confirm and press **Menu** to exit.

H POSITION

H Position can be set to -30 to 30.

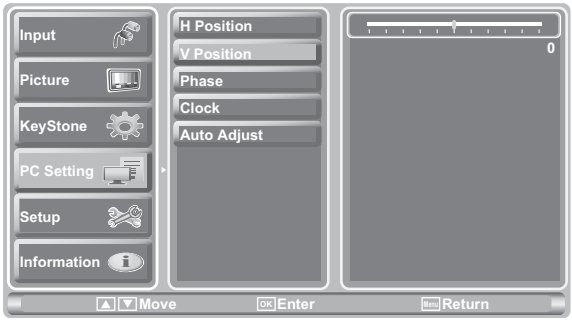
1. Press **Menu** on the remote control.
2. Press ▲/▼ to select **PC Setting**, then press ↵.
3. Press ▲/▼on the remote control to select **H Position** then press ↵.
4. Press ◀/▶ on the remote control to adjust the value.
5. Press ↵ to confirm and press **Menu** to exit.



V POSITION

H Position can be set to -30 to 30.

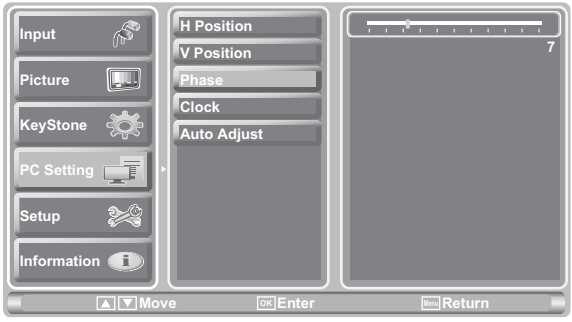
1. Press **Menu** on the remote control.
2. Press ▲/▼ to select **PC Setting**, then press ⏎.
3. Press ▲/▼on the remote control to select **V Position** then press ⏎.
4. Press ◀/▶ on the remote control to adjust the value.
5. Press ⏎ to confirm and press **Menu** to exit**.**



PHASE

Phase can be set to 0 to 31.

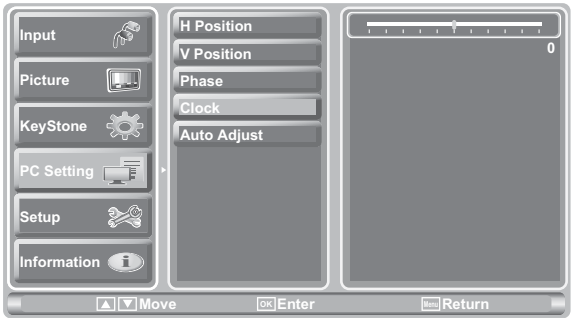
1. Press **Menu** on the remote control.
2. Press ▲/▼ to select **PC Setting**, then press ⏎.
3. Press ▲/▼on the remote control to select **Phase** then press ⏎.
4. Press ◀/▶ on the remote control to adjust the value.
5. Press ⏎ to confirm and press **Menu** to exit.



CLOCK

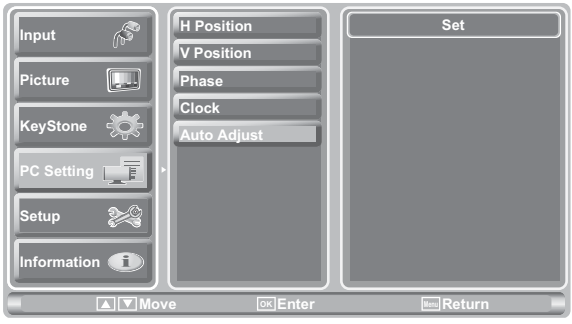
Clock can be set to -30 to 30.

1. Press **Menu** on the remote control.
2. Press ▲/▼ to select **PC Setting**, then press ↵.
3. Press ▲/▼on the remote control to select **Clock** then press ↵.
4. Press ◀/▶ on the remote control to adjust the value.
5. Press ↵ to confirm and press **Menu** to exit.



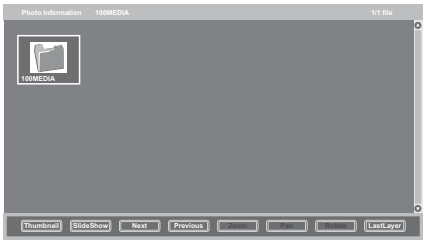
AUTO ADJUST

1. Press **Menu** on the remote control.
2. Press ▲/▼ to select **PC Setting**, then press ↵.
3. Press ▲/▼on the remote control to select **Auto Adjust** then press ↵.
4. Press ↵ again to confirm.



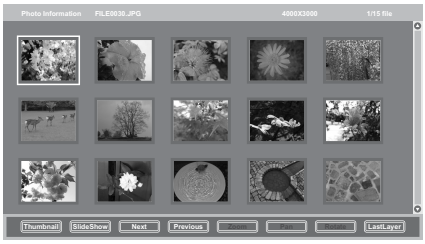
Viewing pictures in USB mode

1. Press ▲/▼/◀/▶ on the remote control to select the picture folder.
2. Press ▲/▼/◀/▶ on the remote control to scroll through the pictures and options.
3. Press (↵) to confirm.



THUMBNAIL VIEW

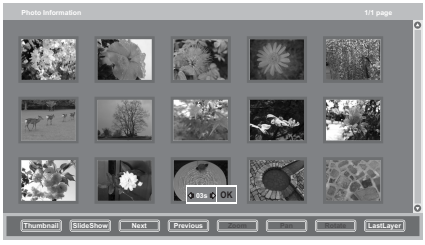
Select **Thumbnail** to view pictures in a thumbnail view.



SLIDESHOW

Select **SlideShow** and press ◀/▶ on the remote control to adjust the transition time.

- To pause the slide show, press the **Enter** key on the remote control.
- To resume the slide show, press the **Enter** key again.



ZOOM

Select **Zoom** to zoom in on the pictures.

PAN

Select **Pan** to reposition the pictures.

ROTATE

Select **Rotate** to rotate the pictures.

Appendix

Specifications

Model	AUR-UNIPROJECTOR 16-9
Solution	1 x 0.555" LCoS
Resolution(native)	720P
Input I/O	HDMI, D-Sub, Composite, USB, Audio In(Phone Jack)
Output I/O	Audio line out (Phone Jack)
Power Consumption	40 W (Max)
Picture arrangement	NTSC, VGA, HDMI 1.3, USB 2.0(JPEG only)
Weight	890 g

Troubleshooting

Problem	Possible causes	Solutions
Power LED is not illuminated.	Power cord is not connected correctly.	Make sure that the power cord is connected correctly. Refer to the quick start guide.
	Power not available.	There may be a power outage in your area. Make sure that other electronic devices are working correctly.
ON/OFF LED is not illuminated.	The mini projector is not turned on.	Use the remote control to turn on the mini projector.
Remote control is not working.	Batteries may be low.	Replace the remote control battery.
No picture	A/V connection may be loose.	Check that the A/V cables are connected securely.
	Incorrect source is selected.	Make sure that the correct input source is selected.
No sound	Audio cable not connected or loose connection.	Make sure that the audio cable is connected properly.
	Volume too low or muted from the mini projector.	Increase volume setting for the mini projector.
	Video played is a silent program.	Ensure that the video is not a silent program.